

LexisNexis CourtLink

[Order Documents](#) | [Available Courts](#) | [Lexis.com](#) | [Sign Out](#) | [Help](#)

Welcome Toby Port!

[My CourtLink](#)  [Search](#)  [Dockets & Documents](#)  [Track](#)  [Alert](#)  [Strategic Profiles](#)  [My Account](#) [Search > Patent Search](#)**Patent Number Search****Enter a Patent Number or Select a District Court**

- Entering a patent number displays all cases related to that patent.
- Selecting a Court displays all patent-related cases for that court.

**Enter a Patent Number** [info]

5290551

**-- OR --****Select a District Court**

-- Select --

**Client Matter Code:** [info]**Previous Codes:** [info]

-- Select One --

[Manage Previous Codes](#)*These codes will appear on your invoice next to charges associated with this search. The values will be preserved until changed.***Client/Project Notes:**[Pricing](#)[Privacy](#)[Master Services Agreement](#)[Copyright © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.](#)

LexisNexis® CourtLink®

[Order Documents](#) | [Available Courts](#) | [Lexis.com](#) | [Sign Out](#) | [Help](#)

Welcome Toby Port!

[My CourtLink](#)  [Search](#)  [Dockets & Documents](#)  [Track](#)  [Alert](#)  [Strategic Profiles](#)  [My Account](#) [Search](#) > [Patent Search](#) > [Searching](#)

## Patent Search - Number: 5290551



No cases containing this patent number were found.

[Return to Search](#)

(Charges for search still apply)

---

[Pricing](#)   [Privacy](#)   [Master Services Agreement](#)

[Copyright](#) © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

QUESTEL

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database  
New Patent Citation Commands & FAM Citation Report - see INFO PATCITE  
Announcing enhanced searchability of Relevancy Codes in Search Reports  
for EP, WO and FR patents. For more details see below and on QO website  
-To retrieve set of high relevancy X coded cited patents, use xctx=yes  
-To extract cited patents with only high relevancy code, use mem/xctx  
Last update of file: 2005/05/04 (YYYY/MM/DD) 2005-17/UP (last update)

Search statement 1

?us5290551/pn

\*\* SS 1: Results 1

?prt full legalall max

1/1 PLUSPAT - (C) QUESTEL-ORBIT  
PN - US5290551 A 19940301 [US5290551]  
TI - (A) Treatment of melanoma with a vaccine comprising irradiated  
autologous melanoma tumor cells conjugated to a hapten  
PA - (A) UNIV JEFFERSON (US)  
PA0 - Thomas Jefferson University, Philadelphia PA [US]  
IN - (A) BERD DAVID (US)  
AP - US98533492 19921204 [1992US-0985334]  
FD - Cont. of US520649 19900508 [1990US-0520649] (Abandoned)  
PR - US98533492 19921204 [1992US-0985334]  
- US52064990 19900508 [1990US-0520649]  
IC - (A) A61K-037/66 A61K-039/00  
EC - A61K-039/00D6 &M  
- A61K-039/00D6.  
PCL - ORIGINAL (O) : 424193100; CROSS-REFERENCE (X) : 424085200 424277100  
DT - Basic  
CT - US4108983  
- Bystryn, J-C., Journal of Immunology, vol. 120 (1), pp. 96-101, (1978).

Mitchison, Transplant. Proc. 2:92-103 (1970).

Fujiwara et al., J. Immunol. 132:1571-1577 (1984a).

Flood et al., J. Immunol. 138:3573-3579 (1987).

Fujiwara et al., J. Immunol. 133:510-514 (1984b).

Berd et al., Cancer Res. 42:4862-4866 (1982).

Berd et al., Cancer Res. 44:1275-1280 (1984a).

Berd et al., Cancer Res. 46:2572-2577 (1986).

Berd et al., Cancer Invest. 6:335-347 (1988a).

Berd et al., Cancer Res. 44:5439-5443 (1984b).

Berd et al., Cancer Res. 47:3317-3321 (1987).  
Berd et al., Cancer Res. 48:1671-1675 (1988b).  
Berd et al., Proc. Amer. Assoc. Cancer Res. 29:408 (-1626) (1988c).  
Topalian et al., J. Clin. Oncol. 6:839-853 (1988).  
Lotze et al., J. Biol. Response 3:475-482 (1982).  
West et al., New Engl. J. Med. 316:898-903 (1987).  
Talmadge et al., Cancer Res. 47:5725-5732 (1987).  
Meuer et al., Lancet 1:15-18 (1989).

Miller and Claman, J. Immunol. 117:1519-1526 (1976).

STG - (A) United States patent  
AB - The invention is a hapteneized tumor vaccine for the treatment of cancer. Treatment of cancer patients with an autologous, vaccine preceded by low dose cyclophosphamide (CY) induces delayed-type hypersensitivity (DTH) to melanoma cells, and in some cases, regression of metastatic tumors. The efficiency of the process has been increased by immunizing with tumor cells conjugated to the haptene such as DNP, TNP or AED. Additional embodiments of the vaccine include: 1) combining the vaccine with immunomodulating drugs, such as, interleukin-2 (IL2); and 2) purifying the active components of the vaccine by extracting antigens from cancer cells to produce a chemically-defined, hapteneated vaccine. The treatment may also be extended to include other types of human cancer.

1/1 LGST - (C) EPO

PN - US5290551 A 19940301 [US5290551]  
AP - US98533492 19921204 [1992US-0985334]

ACT - 19980428 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 19980306

- 20020430 US/FP-A [-]

EXPIRED DUE TO FAILURE TO PAY MAINTENANCE FEE

EFFECTIVE DATE: 20020301

- 20021126 US/PRDP-A [+]

PATENT REINSTATED DUE TO THE ACCEPTANCE OF A LATE MAINTENANCE FEE

EFFECTIVE DATE: 20021028

UP - 2003-22

1/1 CRXX - (C) CLAIMS/RRX

AN - 2449564

PN - 5,290,551 A 19940301 [US5290551]

PA - Jefferson, Thomas University

PT - C (Chemical)

ACT - 19980306 REISSUE REQUESTED

ISSUE DATE OF O.G.: 19980428

REISSUE REQUEST NUMBER: 09/036645

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1807

Litigation 5,290,551 Myers

Reissue Patent Number:

- 20020430 EXPIRED (20020301)
- 20021126 REINSTATED (20021030)

UP - 1999-00  
UACT- 2002-11-26

**LexisNexis® Total Research System**

Switch Client | Preferences | Feedback | Sign Off | ? Help

My Lexis™ | Search | Research Tasks | Search Advisor | Get a Document | **Shepard's®** | ECLIPSE | History | 

Sources | Guided Search Forms | Command Searching |

[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Multi-Source Groups](#) > **Patent Cases from Federal Courts and Administrative Materials**

**Enter Search Terms**

Terms and Connectors  Natural Language

5,290,551 or 5290551

**Restrict by Segment:**  
Select a segment, enter search terms for the segment, then click Add.

Select a Segment

**Note:** Segment availability differs between sources. Segments may not be applied consistently across sources.

**Restrict by Date:**  
 No Date Restrictions  From  To

**Search Col**

Use connector between search terms. The connector for a search term is the same as the connector to a search term.

**Syntax Definitions**

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	wit
<u>not w/N</u>	not
<u>pre /N</u>	pre
<u>w/p</u>	in s
<u>not w/p</u>	not
<u>w/seg</u>	in s
<u>not w/seg</u>	not
<u>w/s</u>	in s
<u>not w/s</u>	not
<u>and not</u>	and
View	

[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | **Shepard's®**  
[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)  
[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

## No Documents Found!

No documents were found for your search (**5,290,551 or 5290551**).  
Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

---

[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

[Copyright](#) © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

**LexisNexis® Total Research System**

Switch Client | Preferences | Feedback | Sign Off |  Help

**My Lexis™** | **Search** | **Research Tasks** | **Search Advisor** | **Get a Document** | **Shepard's®** | **ECLIPSE** | **History** | 

**Sources** | **Guided Search Forms** | **Command Searching**

[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Legal News](#) > [Patent, Trademark & Copyright Periodicals, Combined](#)

### Enter Search Terms

Terms and Connectors  Natural Language

5,290,551 or 5290551

[Suggest Terms for My Search](#)

[Advanced Search](#)

### Search Col

Use connector between search connector for connector to a

#### Syntax De

<u>and</u>	and
<u>or</u>	or
<u>w/N</u>	wit
<u>not w/N</u>	not
<u>pre /N</u>	pre
<u>w/p</u>	in s
<u>not w/p</u>	not
<u>w/seg</u>	in s
<u>not w/seg</u>	not
<u>w/s</u>	in s
<u>not w/s</u>	not
<u>and not</u>	and
	Vie

### Restrict by Segment:

Select a segment, enter search terms for the segment, then click Add.

Select a Segment

**Note:** Segment availability differs between sources. Segments may not be applied consistently across sources.

### Restrict by Date:

**No Date Restrictions**  **From**  **To**  [Date Formats...](#)

[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#)  
[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)  
[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

## No Documents Found!

No documents were found for your search (**5,290,551 or 5290551**).  
Click the "Edit Search" button below to try again. You may want to  
try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and  
Concepts" are displayed on the search form when you click  
on Edit Search.

---

[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

[Copyright](#) © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

**LexisNexis® Total Research System**

Switch Client | Preferences | Feedback | Sign Off | Help

[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#) | [ECLIPSE](#) | [History](#) | [Help](#)

[Sources](#) | [Guided Search Forms](#) | [Command Searching](#)

[News & Business](#) > [News](#) > [News, Most Recent Two Years \(English, Full Text\)](#)

**Enter Search Terms**

Terms and Connectors  Natural Language

5,290,551 or 5290551

**Restrict by Segment:**  
Select a segment, enter search terms for the segment, then click Add.

Select a Segment

**Note:** Segment availability differs between sources. Segments may not be applied consistently across sources.

**Search Connector**

Use connector between search terms for connector for connector to a

Syntax	Definition
and	and
or	or
w/N	wit
not w/N	not
pre /N	pre
w/p	in s
not w/p	not
w/seg	in s
not w/seg	not
w/s	in s
not w/s	not
and not	and
	Vie

**Restrict by Date:**

No Date Restrictions  From  To [Date Formats...](#)

[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#)  
[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)  
[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

## No Documents Found!

No documents were found for your search (**5,290,551 or 5290551**).  
Click the "Edit Search" button below to try again. You may want to try one or more of the following:

- Check for spelling errors.
- Remove some search terms.
- Use a less restrictive date range.
- Use more common search terms. "Suggested Words and Concepts" are displayed on the search form when you click on Edit Search.

---

[Edit Search](#)

[About LexisNexis](#) | [Terms and Conditions](#)

[Copyright](#) © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

**LexisNexis® Total Research System**

Switch Client | Preferences | Feedback | Sign Off |  Help

**My Lexis™** | **Search** | **Research Tasks** | **Search Advisor** | **Get a Document** | **Shepard's®** | **ECLIPSE** | **History** | 

**Sources** | **Guided Search Forms** | **Command Searching**

[Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility, Design and Plant Patents](#)

### Enter Search Terms

Terms and Connectors  Natural Language

patno is 5,290,551 or patno is 5290551

[Suggest Terms for My Search](#)

### Search Col

Use connector between search terms. The connector for a search term is the same as the connector to a segment.

Syntax	Definition
and	and
or	or
w/N	wit
not w/N	not
pre /N	preceded by
w/p	in
not w/p	not in
w/seg	in segment
not w/seg	not in segment
w/s	in same sentence
not w/s	not in same sentence
and not	and not
View connector definitions	

### Restrict by Segment:

Select a segment, enter search terms for the segment, then click Add.

Select a Segment

Note: Segment availability differs between sources. Segments may not be applied consistently across sources.

### Restrict by Date:

No Date Restrictions  From  To

[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Search Advisor](#) | [Get a Document](#) | [Shepard's®](#)  
[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Switch Client](#) | [Preferences](#) | [Feedback](#) | [Sign Off](#) | [Help](#)  
[About LexisNexis](#) | [Terms and Conditions](#)

Copyright © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#)   
Terms: [patno is 5,290,551 or patno is 5290551](#) ([Edit Search](#))

985334 (07) 5290551 March 1, 1994

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**5290551**

[Access PDF of Official Patent \\*](#)

[Check for Patent Family Report PDF availability \\*](#)

\* Note: A transactional charge will be incurred for downloading an Official Patent or Patent Family Report. Your acceptance of this charge occurs in a later step in your session. The transactional charge for downloading is outside of customer subscriptions; it is not included in any flat rate packages.

[Link to Claims Section](#)

March 1, 1994

Treatment of melanoma with a vaccine comprising irradiated autologous melanoma tumor cells conjugated to a hapten

**EXPIRATION:** March 1, 2002 - DUE TO FAILURE TO PAY MAINTENANCE FEES (O.G. April 30, 2002)

October 30, 2002 - REINSTATED due to acceptance of delayed payment of maintenance fee (O.G. November 26, 2002)

**REISSUE:** Reissue Application filed Mar. 6, 1998 (O.G. Apr. 28, 1998) Ex. Gp.: 1807; Re. S.N. 09/036,645, (O.G. April 28, 1998)

**APPL-NO:** 985334 (07)

**FILED-DATE:** December 4, 1992

**GRANTED-DATE:** March 1, 1994

**ASSIGNEE-AT-ISSUE:** Thomas Jefferson University, Philadelphia, Pennsylvania, United States (US), 02

**CORE TERMS:** cell, tumor, patient, vaccine, melanoma, autologous, cancer, antigen, lymphocyte, il2 ...

**ENGLISH-ABST:**

The invention is a haptenized tumor vaccine for the treatment of cancer. Treatment of cancer patients with an autologous, vaccine preceded by low dose cyclophosphamide (CY) induces delayed-type hypersensitivity (DTH) to melanoma cells, and in some cases, regression of metastatic tumors. The efficiency of the process has been increased by immunizing with tumor cells conjugated to the hapten such as DNP, TNP or AED. < P > < P > Additional embodiments of the vaccine include: 1) combining the vaccine with immunomodulating drugs, such as, interleukin-2 (IL2); and 2) purifying the active components of the vaccine by extracting antigens from cancer cells to produce a chemically-defined, haptenated vaccine. The treatment may also be extended to include other types of human cancer.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#)

Terms: **patno is 5,290,551 or patno is 5290551** ([Edit Search](#))

View: [Custom](#)

Segments: Abst, Assignee, Cert-correction, Date, Reexam-cert, Reexam-litigate, Reissue, Reissue-comment, Title

Date/Time: Tuesday, May 10, 2005 - 3:56 PM EDT

[About LexisNexis](#) | [Terms and Conditions](#)

[Copyright](#) © 2005 LexisNexis, a division of Reed Elsevier Inc. All rights reserved.